EXHIBIT 33-1 (TP-1)

Thomas J. Priestley
Senior Environmental Planner

Education

PhD, Environmental Planning, University of California, Berkeley

MLA, Environmental Planning, University of California, Berkeley

MCP, City Planning, University of California, Berkeley

BUP, Urban Planning, University of Illinois

Distinguishing Qualifications

Broad training in planning, natural resources, and applied social science.

Over 20 years of professional experience as an educator, researcher, and professional urban/environmental planner.

Skilled in developing work programs and budgets, assembling and managing interdisciplinary project teams, providing quality control, and integrating study findings into appropriate documentation.

Visual assessment specialist with involvement in over 50 visual assessment efforts.

Experienced in the preparation of California Environmental Quality Act (CEQA)- and National Environmental Policy Act (NEPA)-required documents.

Broad knowledge of methods used for siting electric generation, transmission, and substation facilities and mitigating their land use and aesthetic effects.

Skilled in scoping aesthetic and urban design issues and in developing and implementing the appropriate analyses.

Relevant Experience

Dr. Priestley has more than 20 years of professional experience in urban and environmental planning and project assessment. He is known nationwide for his expertise in evaluating aesthetic, land use, property value, and public acceptance issues related to electric energy projects. His experience includes projecting community land use development trends to determine facility needs and optimal location; assessing land use and visual effects of proposed electric facilities; and conducting studies of public perceptions of project visual effects. Through his project experience and his research conducted for utility clients, Dr. Priestley has developed a broad knowledge of methods

used for siting electric generation, transmission, and substation facilities and mitigating their land use, aesthetic, and other environmental effects. As editor or co-author, he has made major contributions to Edison Electric Institute publications related to understanding and evaluating the environmental effects of electric facilities.

In addition to his electricity facility experience, Dr. Priestley is skilled in scoping aesthetic and urban design issues related to other kinds of projects and in developing and implementing the analyses appropriate to address them as part of project assessments. He has worked on numerous transportation-related projects, including conducting research for the Center for the Study of Urban Transport, France's national institute for research on environmental issues associated with urban rail and highway facilities. Dr. Priestley has developed special expertise in evaluation of aesthetic issues associated with hydro projects, particularly those located at waterfall sites. In addition, he has specialized experience in the analysis of the aesthetic effects of wind power facilities.

Dr. Priestley has prepared environmental assessment documents in response to the requirements of the NEPA, CEQA, the US Forest Service Visual Management System, the Federal Energy Regulatory Commission, and the California Energy and Public Utilities Commissions. As the senior professional in the visual resources practice in CH2M HILL's Western Region, he has oversight of visual resource analysis activities in the western states, with an emphasis on issue scoping, study design, mobilization of appropriate staff and technologies, and senior review of final products.

Representative Projects

Wind Generation Facilities

Kittitas Valley Wind Power Project, Kittitas County, WA Designed and conducted the analysis of the potential aesthetic effects of a proposal to develop up to 121 1.3 to 2.5 mW turbines on ridge lands in a rural area in north central Kittitas County. Assessed effects on views from nearby roadways and residences and recommended mitigation measures to attenuate impacts. Prepared the aesthetics chapter for the permit application to the Washington Electric Facility Siting Council (EFSEC). Reviewed the aesthetics analysis in EFSEC's Draft EIS, and prepared testimony for EFSEC's evidentiary hearings.

Confidential Wind Power Project, Los Angeles County, CA . Mentor and QA/QC reviewer for the task lead preparing the analyses of the potential aesthetic effects of a large wind power project being considered for development in a rural area of Los Angeles County. Assisted in the scoping of issues, design of the analysis strategy, and selection of viewpoints used for preparation of simulations and analysis of project effects. Has been serving as resource person for the task lead and has provided technical review of work products.

Confidential Wind Power Project, State of Washington.. Designed and conducted the analysis of the potential aesthetic effects of a proposal to develop a medium sized wind

power project in a rural area with high levels of visual sensitivity. Assessed effects on views from nearby communities, roadways and scenic areas, and recommended mitigation measures to attenuate impacts.

Altamont Pass Wind Resource Area Repowering, Alameda and Contra Costa Counties, CA. Evaluated the potential visual effects of a program to replace existing wind turbines in the Altamont Pass area with a smaller number of larger, more efficient units. Scoped issues; reviewed and synthesized the research literature on public perceptions of wind turbine visual effects; and evaluated site conditions, viewer sensitivity, and visual simulations to prepare written analysis for inclusion in the counties' environmental assessment under the California Environmental Quality Act..

Thermal Generation Facilities

Power Plant Fatal Flaw Analyses, Various California Locations. Conducted initial scoping of visual issues of candidates sites for the development of combined cycle power plants. Identified visual resource constraints on the use of the site for a power plant and recommended siting and design measures to reduce visual impacts.

Central Valley Energy Center, Fresno County, CA. Prepared the visual resources analysis for the Application for Certification (AFC) for a 1,060 MW natural gas-fired combined cycle power plant and associated 230 kV transmission line proposed for development in an agricultural area at the edge of the City of San Joaquin.

Inland Empire Energy Center, Riverside County, CA. Prepared the AFC visual resources analysis for a 670 MW natural gas-fired combined cycle power plant, associated gas compressor station, and 500 kV transmission line proposed for development in an urban fringe area located east of the City of Perris.

East Altamont Energy Center, Alameda County, CA. Prepared the AFC visual resources analysis for an 1,100 MW natural gas-fired power plant and associated 230 kV transmission line proposed for development in an agricultural area near Byron in the northern San Joaquin Valley. Prepared written testimony and testified as an expert witness on visual resources during hearings before the California Energy Commission (CEC).

Russell City Energy Center, Alameda County, CA. Assisted with decision-making for the architectural design of a 600 MW natural gas-fired combined-cycle power plant proposed for a highly visible location at the western gateway to the City of Hayward. Prepared the AFC visual resources analysis for the power plant and an associated 230 kV transmission line. Prepared supplemental analysis of the visual impacts of relocation of a cluster of tall radio towers to a new location to accommodate development of the power plant. Prepared written testimony and testified as an expert witness on visual resources during hearings before the CEC.

Los Esteros Critical Energy Facility, Santa Clara County, CA. Prepared the AFC visual resources analysis for an 195 MW natural gas-fired simple-cycle peaking power plant proposed for development adjacent to a proposed server farm in the Alviso District of the City of San Jose. Prepared written testimony and testified as an expert

witness on visual resources during hearings before the CEC.

Woodland Generation Station 2, Stanislaus County, CA. This project involved an 80 MW peaking unit for which the Modesto Irrigation District filed a Small Power Plant Exemption (SPPE) with the CEC. In its initial evaluation, CEC contended that the project's steam plumes would create significant visual impacts, the mitigation of which would require substantial modifications of the project's operations. Prepared special analyses of the setting, and of the visibility and visual role of the steam plume within that setting, to provide a basis for reassessment of CEC's conclusions. Provided expert testimony. As a result of the applicant's contestation of staff's findings, plume-related mitigation requirements were dropped.

Gilroy Energy Center Phase I and Phase II Projects, Santa Clara County, CA. Prepared the visual resources analysis for the 21-day and 4-month permit applications for a set of six LM 6,000 natural gas-fired simple-cycle peaking power generation units proposed for installation adjacent to the Gilroy Foods processing plant and the Gilroy Cogeneration Plant on the eastern edge of the City of Gilroy.

Rio Linda Power Plant, Sacramento County, CA. Prepared the AFC visual resources analysis for a 600 MW natural gas-fired power plant and associated 230 kV transmission line proposed for development in an urban fringe area near Rio Linda in the Sacramento metropolitan area.

Metcalf Energy Center, Santa Clara County, CA. Responsible for all aspects of the visual resources analysis for a 600 MW natural gas-fired power plant and associated 230 kV transmission line proposed for development at the southern edge of the City of San Jose. Assisted in review of architectural and landscape treatments, prepared visual resources analysis for the AFC, reviewed and critiqued relevant sections of the CEC's Preliminary Staff Analysis (PSA) and Final Staff Analysis (FSA), and evaluated the visual issues associated with CEC-proposed alternative sites. Testified during hearings before the CEC as an expert witness on visual resources.

Los Medanos Energy Center, Contra Costa County, CA. Provided post-licensing assistance to the client related to visual resource issues associated with this 500 MW combined cycle power plant located in the city of Pittsburg. Assisted the applicant with selection of color treatment for project facilities and with securing of CEC. Consulted on the development of a landscape plan to mitigate the visual effects of a relocated underground transmission line and assisted in securing CEC approval of the mitigation plan.

Elk Hills Power Project, Kern County, CA. Scoped the visual issues and prepared the AFC visual resources analysis for a 500 MW natural gas-fired power plant and associated 230 kV transmission line proposed for development in the former Elk Hills Naval Reserve. Reviewed and critiqued relevant sections of the CEC's PSA and FSA. Testified during hearings before the CEC as an expert witness on visual resources.

Newark Energy Center, Alameda County, CA. Prepared visual resources analyses for a 600 MW natural gas-fired power plant and associated 230 kV transmission line proposed for development in the city of Newark.

Delta Energy Center, Contra Costa County, CA. Scoped the visual issues and prepared

the AFC visual resources analysis for an 880 MW natural gas-fired power plant and associated 230 kV transmission line proposed for a site in the city of Pittsburg. Reviewed and critiqued relevant sections of the CEC's PSA and FSA. Prepared written testimony and testified as an expert witness on visual resources during hearings before the CEC. Provided post-licensing assistance to the client for the selection of color treatment for project facilities and to secure CEC approval.

Sutter Power Project, Sutter County, CA. Developed special analyses of land use and visual resource issues associated with this 500 MW natural gas-fired generating facility and associated 230 kV transmission line proposed for a site in an agricultural area within the Sacramento Valley. Testified during hearings before the CEC as an expert witness on land use and visual resources.

Glenwood Springs Cogeneration Plant and Transmission Line, CO. Analyzed the aesthetic impacts of a proposed 25 MW cogeneration/desalinization plant. Assisted with the alignment selection for the transmission line associated with the plant, and evaluated the line's visual effects.

Bay Area Resource Recovery Facility and Transmission Line, San Mateo County, CA. As a consultant to the CEC, analyzed the aesthetic impacts of a cogeneration plant and transmission line proposed for development on a site adjacent to San Francisco Bay.

Kangley-Echo Lake Transmission Line, King and Kittitas Counties, WA. Scoped the visual issues and designed and implemented an analysis plan to assess the potential aesthetic impacts of a proposed 500 kV transmission line on four alternative routes, with a total length of approximately 120 miles through forest, recreation, scenic corridor, and rural and suburban residential areas. Supervised the preparation of photo simulations and the preparation of Geographical Information System (GIS) analyses. Prepared the technical report documenting the analysis.

Jefferson-Martin Transmission Project Proponent's Environmental Assessment, San Mateo County, CA. Senior reviewer and consultant for an analysis of the aesthetic issues associated with the proposed replacement of a 14.7-mile segment of an existing kV transmission line with a 230 kV line on larger towers. The transmission line's location in an open space area prized for its scenic qualities and in proximity to affluent residential areas made the visual issues a sensitive and critical dimension of this project, requiring an intensive degree of analysis.

Tri-Valley Transmission Upgrade Project Proponent's Environmental Assessment, Alameda County, CA. Analyzed aesthetic issues associated with a system of new 230 kV lines and substations being proposed by Pacific Gas and Electric Company (PG&E) to upgrade service to the Livermore/Pleasanton/San Ramon area. Scoped issues and made an evaluation of a large set of candidate routes to aid selection of a smaller set of preferred routes. Conducted detailed visual analyses of the preferred routes, wrote the draft of the visual analysis report, and proposed mitigation measures in preparation for filing of a permit application with the California Public Utilities Commission (CPUC).

Valley-Auld Transmission Line Proponent's Environmental Assessment, Riverside County, CA. Scoped visual issues associated with a proposed 12-mile, 115 kV Southern California Edison transmission line, conducted visual analyses, prepared the visual analysis report, and proposed mitigation measures to reduce project's visual effects to

less than significant levels in preparation for filing of a permit application with the CPUC.

Swan Lake/Lake Tyee Transmission Project, Tongass National Forest, AK. Prepared visual section of the Environmental Impact Statement (EIS) for a 60-mile transmission line and associated access roads proposed by Ketchikan Public Utilities for Forest Service lands in Alaska's southeast peninsula. Coordinated with Forest Service planning and visual resource management specialists; reviewed Forest Service Visual Resource Management analyses and policies for the project area; analyzed existing landscape conditions; evaluated the aesthetic effects of similar facilities that already exist in the region; provided advice about siting of the route alternatives; analyzed the visual effects of the alternatives; and developed mitigation strategies.

Geothermal Public Powerline, Lake and Colusa Counties, CA. Consultant to the CEC for evaluation of the aesthetic impacts of a transmission line proposed to link the Geysers geothermal area and the Central Valley. Inventoried landscape conditions and reviewed the project proponent's visual impact assessments. Developed independent evaluations of the project's effects on landscape quality in developed communities, in resort areas, along scenic highway corridors, and in other sensitive areas; proposed mitigation measures.

Colusa County Transmission Line Element, Colusa County, CA. Consultant to a team that developed an element for the Colusa County General Plan to guide the siting and design of new electric transmission lines. Summarized the literature on transmission line effects and on siting and design options for impact mitigation; developed an analysis framework; provided technical review of all final products; and prepared the chapter on aesthetic issues. The aesthetic work included survey and evaluation of the county's current landscape conditions and sensitivities, and development of siting and design guidelines.

International Electric Transmission Perception Project. Project Manager for a multi-year research program sponsored by Hydro-Québec, Electricité de France, BC Hydro, the Bonneville Power Administration and Southern California Edison. Managed a team of planners and social scientists conducting research aimed at development and application of standardized methods for surveying the public's perceptions of the impacts of high-voltage transmission lines. Identified transmission line siting issues and information needs; summarized and evaluated existing research findings; participated in development of a conceptual framework for understanding the public's perceptions; and contributed to the development of a master plan and design for preparation and testing of standardized survey instruments.

Development of a New Method for Considering Aesthetic Issues in Transmission Line Siting, Québec, Canada. For Hydro-Québec, provided conceptual review and research assistance for its efforts to evaluate and revise approaches to treatment of transmission line aesthetic issues in project planning, siting, and design.

Environmentally Sensitive Design of Transmission and Substation Equipment. For Hydro-Québec and Electricité de France, developed an inventory and assessment of the experience of US utilities in developing new transmission and substation equipment designs to reduce aesthetic and other environmental impacts. Activities included

literature review, survey of utility engineers and planners, interviews with utility personnel, and documentation and synthesis of findings.

Review of New Design for 500 kV Towers, British Columbia, Canada. Aesthetics specialist on a panel of experts convened by BC Hydro to review a new design for 500 kV transmission towers.

Design Solutions for Mitigation of Substation Impacts. For Hydro-Québec, documented the experience of utilities in the US, Canada, France, and Japan during the development of design solutions for urban substations to aid their integration into their settings. In addition, documented measures used by US utilities to respond to environmental issues associated with modifications of existing substations.

Study of Transmission Line Effects on Property Values, Solano County, CA. Consultant and major contributor to the design and implementation of a research project sponsored by Southern California Edison that used hedonic modeling to evaluate the property value effects of transmission lines in a cross-section of suburban residential neighborhoods.

Review of the Literature on Transmission Line Effects on Property Values. Major contributor to development of an Edison Electric Institute-sponsored bibliography and critical review of post-1975 studies on the relationship between transmission lines and the value of residential property.

Guide to Conducting Research on Transmission Line Property Value and Aesthetic Effects. Co-author of an Edison Electric Institute guidebook for utility staff on the design and implementation of research on the effects of electric transmission lines on perceptions and property values in residential neighborhoods. Co-authored and assisted in the production of an accompanying videotape.

Study of Public Perceptions of a Transmission Line in a Residential Neighborhood, Vallejo, CA. Designed and conducted a survey of resident perceptions of a newly upgraded 115/230 kV transmission line in a neighborhood of single-family homes. Conducted advanced analysis and interpretation of the findings. Published the results as a research report and journal article.

Transmission Line Undergrounding and Under River Crossings. For Hydro Québec, conducted a set of case studies documenting and analyzing controversies over the siting of electric transmission lines in which demands were made for placing lines underground or under water.

Transmission Line Effects on Land Use Development. For the Edison Electric Institute, identified and evaluated transmission line siting cases in which concerns about line impacts on future development were a major concern. Reviewed the literature on transmission line impacts on land use development and proposed a program for further research.

Transmission Line Land Use and Aesthetic Issues. For PG&E, analyzed land use and aesthetic issues associated with transmission lines and prepared policy papers for submission to the CPUC.

Hydroelectric and Water Resources Projects

Red Bluff Diversion Dam, Tehama County, CA. Developed the analysis plan for and directed the assessment of the aesthetic changes associated with a set of alternatives being considered for changes in management of the Red Bluff Diversion Dam to enhance passage for anadromous fish. Changes being considered included construction of a massive pumping facility, new fish ladders, and a dam bypass and elimination of an aesthetically and recreationally important lake created by the dam either entirely, or for all but two or four months of the year. The analysis, which included preparation of simulations, was summarized in an aesthetics chapter prepared to meet the requirements of both the NEPA and CEQA.

Oroville Facilities Hydroelectric Project, Oroville, CA. As part of an Applicant Prepared Relicensing (APR) process, responsible for preparation of initial project documents. Developed outlines and work plans; coordinated with the Department of Water Resources and environmental specialists for each of the issue areas; assembled drafts; edited text; designed final reports; and supervised report production. Responsible for analysis of the visual resource issues associated with the project's reservoir, forebay, afterbay, canals, dam structures, power houses, and fish ladder facility. Technical advisor to the Land Use, Land Management, and Aesthetics Work Groups, requiring participation in sessions involving agency staff, representatives of Indian Tribes and Non-Governmental Organizations, and members of the general public.

Willamette Falls Hydroelectric Project, Oregon City and West Linn, OR. As part of the APR process, prepared analyses of visual resources issues that include evaluations of the appearance of the falls under varying flow conditions, as well as assessments of the relationship of project structures to the project's landscape setting.

Aesthetic and Site Enhancement Studies, Shoshone Falls Hydroelectric Project, ID. Consultant to Idaho Power on the effects of proposed relicensing of the Shoshone Falls hydroelectric project on the aesthetic qualities of the falls and adjacent park. Provided direction for development of the analysis approach for assessing the effects of changes in flows over the falls on the falls' appearance and public expectations. Evaluated the project in light of local government and land management agency plans and policies, designed and implemented special perception studies, and worked with an advisory committee of representatives of local governments and state agencies. Based on this process, recommended mitigation and enhancement measures. Assisted in preparing a visual analysis report for incorporation into the Exhibit E submitted to Federal Energy Regulatory Commission (FERC).

FERC Exhibit E, Snoqualmie Falls Hydroelectric Project, WA. Analysis of the aesthetic implications of a proposal by Puget Sound Power and Light to increase the capacity of its generating plant at Snoqualmie Falls. Assessed impacts of structural changes and changes to flows over the falls. Developed and applied a methodology for evaluating the effects flow changes would have on the falls' appearance. Prepared the aesthetics section of Exhibit E of the relicense application. Developed the script for a video regarding the aesthetics issues submitted to the FERC.

Ramsey-French Meadow Hydro Project, FERC Initial Scoping, Stanislaus National Forest, CA. Scoped visual issues associated with a hydroelectric project proposed by the Northern California Power Authority for the North Fork of the Stanislaus River.

Responsible for coordination with Forest Service landscape personnel, review of Forest Service and county plans, field evaluation of landscape conditions, preparation of the visual effects section of the FERC-mandated Initial Scoping document, and preparation of a plan for the assessment of aesthetic issues.

Environmental Evaluation of Proposed Modifications to Existing Hydroelectric Facilities.
On behalf of Hydro-Québec, documented FERC procedures and guidelines for environmental assessment of proposed changes to existing hydroelectric projects. Documented hydro upgrade-related activities undertaken by the US Bureau of Reclamation and the US Army Corps of Engineers. Collected procedures, guidelines, and examples of project environmental assessments and post-construction monitoring studies prepared by or for these agencies.

Visual Assessment/Mitigation Recommendations for the San Joaquin Reservoir, Newport Beach, CA. Evaluated visual impacts of proposed alternative reservoir cover and water treatment plant options for a Metropolitan Water District water supply facility located in an affluent residential area. Developed a proposal for design mitigation measures that led to project acceptance by residents of the neighborhood overlooking the reservoir.

Remediation and Landfill Projects

Relocation of KFAX Radio Towers at the Old West Winton Landfill, Alameda County, CA. Analyzed the aesthetic implications of relocating a set of four 228-foot-high radio transmission towers on a closed landfill site adjacent to a major public open space area. The analysis included development of visual simulations and an investigation of options for establishment of screening landscaping on top of the landfill's cap.

Penn Mine Remediation Project, Calveras County, CA. Evaluated the visual impacts of a mine waste remediation project in the watershed of the East Bay Municipal Utility District's Camanche Reservoir. Assessed the visual implications of the removal of mine spoils, landfilling of the spoils, regrading of slopes, and revegetation of affected lands. The focus was on impacts of these changes on the views experienced by recreational users on the adjacent reservoir.

Environmental Assessments for Transportation Projects

Bay Area Rapid Transit (BART) Warm Springs Extension, Fremont, CA. Analyzed the aesthetic impacts of a proposed 7.8-mile extension of the BART heavy-rail system from the City of Fremont to Santa Clara County. Prepared the aesthetics section of the CEQA-mandated Environmental Impact Report (EIR).

Santa Clara County T2010 Transportation Plan, San Jose, CA. Evaluated the aesthetic

issues associated with the highway, rail, and light rail projects proposed by the Santa Clara County T2010 Transportation Plan and prepared the aesthetics section of the CEQA-mandated EIS.

Urban Freeway Design Research, France and US. Conducted research **c**omparing American and French approaches to planning and design of urban freeways to optimize their integration into the urban environment. Research included literature review, interviews with highway engineers and landscape architects in the US and France, review of plans and environmental assessments, and site visits to exemplary projects.

Chevilly-Larue Roadway Design Evaluation Study, France. Member of a study team that evaluated the effects of urban design measures intended to improve traffic safety and aesthetics that were installed on a heavily-traveled road through the center of a suburban community. Developed a research strategy and questionnaire for documenting resident perceptions before and after the installation of the measures.

Land Use, Natural Resource, and Urban Design Studies

Growth and Development Studies, Northern and Central California. At PG&E, designed, scheduled, and managed studies evaluating growth trends and forecasting future population and land use in urban and rural areas throughout Northern and Central California to provide a basis for planning and siting future electric facilities. Supervised work that included coordination with local planning agencies; data gathering and evaluation; analysis of economic, demographic, environmental, infrastructure, and policy data; development of growth projections; and reporting of findings.

East Anderson Receiving Station Growth Impact Study, Phoenix, AZ. For the Salt River Project, analyzed the land use development implications of a large electric receiving station proposed for a developing area on the edge of Phoenix. Directed collection, mapping, and analysis of demographic, economic, land use, infrastructure, planning, and policy data, and generation of projections of future land use patterns under project and no-project scenarios.

Plum Creek Land Exchange EIS, Mount Baker/Snoqualmie, Wenatchee, and Gifford Pinchot National Forests, WA. Analysis of land status and use, aesthetic, recreation, unroaded area, and wild and scenic river issues associated with the proposed exchange of over 100,000 acres of forest land between the Plum Creek Timber Company and the National Forest system. Assessed public and agency concerns; developed an analysis strategy; used Forest Service GIS data as the basis for map and statistical analyses; collected and made use of supplemental data generated through field work, interviews, and review of published sources; and prepared analyses and summary text for the EIS.

Plum Creek Road Access EIS, Wenatchee National Forest, WA. Analysis of aesthetic, recreation, unroaded area, and wild and scenic river issues associated with the proposed development of over 40 road segments over Forest Service lands to provide access to future timber harvest areas on adjacent Plum Creek Timber Company parcels. Assessed public and agency concerns; developed an analysis strategy; used Forest Service GIS data as the basis for map and statistical analysis; collected and made use of

supplemental data generated through field work, interviews, and review of published sources, and prepared analyses and summary text for the project EIS.

Oakland Army Base Disposal and Reuse EIS, Oakland, CA. Analyzed the land use, demographic, aesthetic, odor, and environmental justice issues associated with six different reuse options being considered for the 422-acre Oakland Army Base. Drafted the text for the EIS sections related to these issues. In addition, developed a cumulative effects analysis and summary text that that considered all project environmental issues for each of the reuse options.

Environmental Assessment of Proposed Development Projects, Northern California. For a variety of municipal planning departments, evaluated the aesthetic and urban design issues associated with proposed development projects and prepared the aesthetics sections of the EIRs prepared under CEQA. The projects included a shopping and parking complex located in one of California's most historic town centers, a major suburban hotel complex, a 580-acre residential subdivision, and a set of four downtown parking garages.

Centrage Urban Development Project, Sacramento, CA. For Lennane Properties, developed and applied a methodology for assessing the potential scale and privacy effects of a proposed cluster of high-rise buildings on adjacent single-family residential areas.

Using Land Use Controls to Improve Air and Water Quality, Sonoma County, CA. Contributed to an EPA-sponsored study evaluating links between land use development and air and water quality. Identified and summarized the findings of the relevant literature, developed links with the planning agencies in the study area, and evaluated of the local land use planning and regulatory system to identify its potential role in influencing development to improve air and water quality.

Bay Area Open Space Plan, San Francisco Bay Area, CA. Contributed to the revision of the Association of Bay Area Governments' Bay Area Open Space Plan, evaluating open space as a component of visual quality.

University Teaching

Department of City and Regional Planning, University of California, Berkeley. Lecturer Taught CP 214, "Urban and Regional Physical Infrastructure," a graduate-level course providing a survey of the major infrastructure systems, their characteristics and impacts, and their relationships to the planning of cities and regions.

Department of Urban and Regional Planning, California State Polytechnic University, Pomona. Assistant Professor. Designed and taught undergraduate courses in urban design, and natural factors in planning. Taught studio sections of courses in graphic communication and design and in subdivision design. Conducted activity sections of the introduction to cities and planning course.

Ecole Nationale des Ponts et Chaussées. Paris, France. Visiting Lecturer. Taught "The Urban Environment," a lecture course in English for engineers and planners on environmental quality issues and their treatment in project planning and design.

Departments of Landscape Architecture and City Planning, University of California, Berkeley. Instructor. Co-taught "The Urban Environment" a graduate level course
reviewing methods for treating environmental quality issues in the planning and design process. Assisted in teaching "Social Factors in Landscape Design."

Professional Affiliations

American Institute of Certified Planners American Planning Association American Society o f Landscape Architects International Association for Impact Assessment

Selected Professional Reports, Publications and Conference Papers

Technical Issues in Developing Wind Projects: Aesthetics. Presentation at the American Wind Energy Association Wind Power Siting Workshop, Portland, Oregon, October 13, 2004.

Addressing the Aesthetic Challenges Faced by the Wind Industry: Research to-Date and Insights from the Environmental Design Research Paradigm. Presentation at the Global WINDPOWER Conference, Chicago, March 31, 2004.

Public Perception of Electric Facilities, an Advanced Workshop, Washington, DC March 17, 18, 19, 1996: Workshop Summary (editor). Published by the Edison Electric Institute, Washington, DC, 1997.

Perception of Transmission Lines: Summary of Surveys and Framework for Further Research (with Kenneth Craik, Mary Deming, and Selma Monsky). International Electric Transmission Perception Project. Published by Edison Electric Institute, Washington, DC, 1996.

"Environmental Perception, Cognition, and Behavior: Public Responses to Electric Transmission Lines" (with Gary Evans, Ph.D.). Journal of Environmental Psychology 16, 6574, March, 1996.

L' integration dans l'environnement des ouvrages de transport d'energie electrique. (in collaboration with Aménatech). Prepared for Hydro-Quebec and Electricite de France. 1996.

Environmental Design Issues Associated with Older Substations. (with Aménatech). Report prepared for Hydro-Québec, Vice-présidence Environnement, October, 1995.

"The Public and Electric Facility Siting" (with Daniel Cohen). Article
published in Environmental Planning Quarterly, Spring, 1995.

Substations in the Urban Context: Design Issues and Examples. Report prepared for Hydro-Québec, Vice-présidence Environnement, 1994.

"Colusa County Transmission Line Element" Paper given at Edison Electric Institute National Land Management Workshop, Duluth, Minnesota, August 1992 and submitted for inclusion in the workshop proceedings.

Perceived Effects of Electric Transmission Facilities: A Review of Survey-Based Studies. Prepared for the Siting and Environmental Planning Task Force of the Edison Electric Institute. 1992.

The Effects of Overhead Transmission Lines on Property Values: A Review and Analysis of the Literature. (with Cynthia Kroll, Ph.D.) Prepared for the Siting and Environmental Planning Task Force of the Edison Electric Institute. 1992.

A Statistical Analysis of Transmission Line Impacts on Residential Property Values in Six Neighborhoods. (with Patrice Ignelzi) Prepared for the Southern California Edison Company. May, 1991.

Perceptions of a Transmission Line in a Residential Neighborhood: Results of a Case Study in Vallejo, California. (With Gary Evans, Ph.D.) Prepared for the Southern California Edison Company. November, 1990.

Undergrounding of Electric Transmission Lines: A Review of Recent Cases in the United States. Prepared for Vice-présidence Environnement, Hydro Québec. July, 1990.

A Guide to Assessing Transmission Line Impacts in Residential Communities. (with Patrice Ignelzi). Washington, DC, Edison Electric Institute, 1990.

Transmission Line Impacts: Studying Perceptions and Property Values. (videotape, contributing author of script). Washington, DC, Edison Electric Institute, 1990.

"Perceptions of Transmission Lines in Residential Neighborhoods: Results of a California Case Study." Edison Electric Institute Workshop on Transmission Lines in Residential Neighborhoods: Issues in Siting and Environmental Planning, Portland, Oregon, October, 1989.

Aesthetic Quality Issues and Their Treatment in Electric Transmission Line Planning - Towards a New Paradigm. Ph.D. Dissertation, Department of Landscape Architecture, University of California, Berkeley, September, 1988.

"Study of the Effects of An Electric Transmission Line on Perceived Neighborhood Quality." IAPS 10, Delft, Holland, July, 1988.

"The Environment Behavior Perspective and Assessment of Landscape Aesthetics - Powerline Siting and Analysis in North America." in Environment and Human Action, Proceedings, 8th International Conference of the IAPS, West Berlin, July 25-29, 1984. Berlin: Hochscule der Kunst, pp. 51-53. 1984.

"Donald Appleyard's Contribution to Street Livability Research." Proceedings, Fifth Annual Pedestrian Conference. Boulder, CO: Transportation Division, City of Boulder, 1984, pp. 19
27.

Chinatown Urban Design Study. (with Peter Bosselmann, et al.) Berkeley Environmental Simulation Laboratory, 1984.

Sun, Wind, and Comfort: A Study of Open Spaces and Sidewalks in Four Downtown Areas. (With Peter Bosselmann, Edward Arens, *et. al.*) Berkeley, CA: Institute of Urban and Regional Development, 1984.

Aesthetic Considerations and Electric Utilities: An Introductory Guide to the Literature. Palo Alto, CA: Electric Power Research Institute, February, 1984.

"The Field of Visual Analysis and Resource Management: A Bibliographic Analysis and Perspective" Landscape Journal. Spring, 1983, pp. 52-59.

Transmission Lines and Land Use Development: Final Report. Prepared for the Community and Regional Planning Task Force of the Edison Electric Institute, 1983.